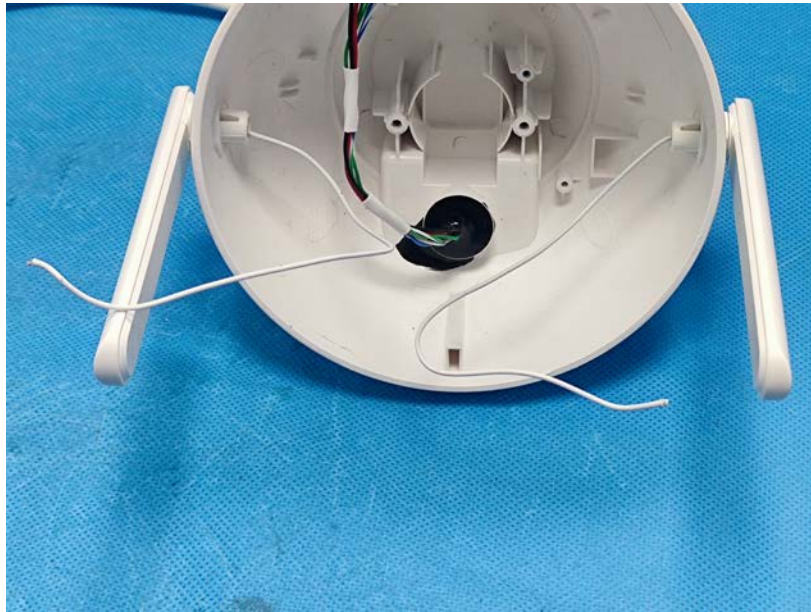


## Measurement of Antenna for CH3 Project

**Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.**

### 1. Antenna Appearance:



### 2. Electrical performance test results at normal temperature

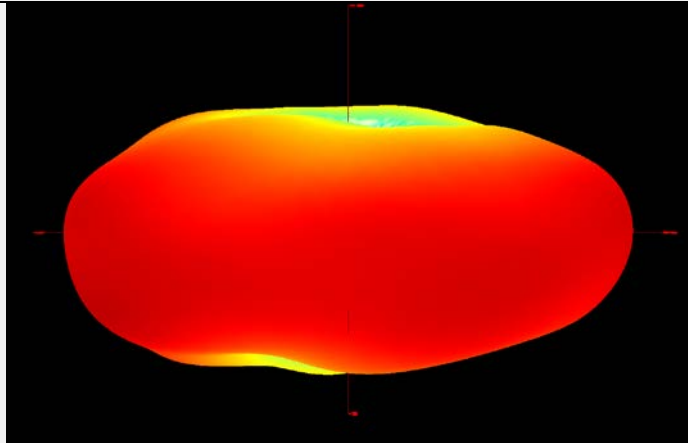
**a) 2. 4G Antenna**

| No | Test Item       | Unit | Demand Performance | Test Result |      | Judgement |
|----|-----------------|------|--------------------|-------------|------|-----------|
| 1  | Frequency Range | MHz  | 2400-2480          | 2400-2480   |      | OK        |
| 2  | Gain            | dBi  | 3                  | 2412        | 3.56 | OK        |
|    |                 |      |                    | 2450        | 3.62 | OK        |
|    |                 |      |                    | 2480        | 3.72 | OK        |
| 3  | Return loss     | dB   | $\leq -10$         | 2400        | -17  | OK        |
|    |                 |      |                    | 2450        | -31  | OK        |
|    |                 |      |                    | 2480        | -18  | OK        |

Directional diagram for 2.4GHz

| EUT       |                 |               |
|-----------|-----------------|---------------|
| Remark    |                 |               |
| Frequency | E Total. dB(dB) | Efficiency( ) |
| 2400MHz   | 3.39            | 85%           |
| 2410MHz   | 3.56            | 85%           |
| 2420MHz   | 3.68            | 84%           |
| 2430MHz   | 3.59            | 87%           |
| 2440MHz   | 3.56            | 88%           |
| 2450MHz   | 3.62            | 87%           |
| 2460MHz   | 3.66            | 85%           |
| 2470MHz   | 3.68            | 86%           |
| 2480MHz   | 3.72            | 86%           |
| 2490MHz   | 3.87            | 83%           |
| 2500MHz   | 3.81            | 80%           |

3D Radiation patterns at 2450 MHz



H PLANE

V PLANE

2D Radiation patterns 2450 MHz

